

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/062818 A3

(51) International Patent Classification⁷: **A61K 9/00, A61F 2/00**

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/US2004/042660

(22) International Filing Date:
17 December 2004 (17.12.2004)

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
011987 19 December 2003 (19.12.2003) **MX**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): **OSIO CORP. [US/US]; 755 Boylston Street, #401, Boston, Massachusetts 02116 (US).**

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(71) Applicant (for US only): **OSIO SANCHO, Alberto [MX/MX]; Prolongacion Bosques de Reforma, #1477 T-Ph2, Colonia Bosques de las Lomas, Mexico, D.F. 11700, Mexico (MX).**

(74) Agent: **BAKER, C. Hunter; Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109 (US).**

(88) Date of publication of the international search report:
13 October 2005

(81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM,**

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **TREATMENT OF OPHTHALMIC CONDITIONS**

(57) Abstract: Ophthalmic conditions such as presbyopia, myopia, and astigmatism can be corrected by the use of a molding contact lens in combination with a pharmaceutical composition suitable for delivery to the eye. The molding contact lenses are preferably commercially available and are not specifically designed for orthokeratology. The agents in the pharmaceutical compositions such as hyaluronase allow the cornea of the eye to be molded in order to correct the refractive error of the eye. The contact lenses and the pharmaceutical composition induce a change in the radius of curvature of the anterior surface of the cornea, thereby correcting the refractive error of the eye. One advantage of the inventive technique is that the patient with his or her own individual visual needs guides the treatment until the patient near and far visual needs are met. The present invention also provides for kits, which contain molding contact lenses, pharmaceutical composition suitable for delivery to the eye, and instructions, useful in the inventive system.

WO 2005/062818 A3